

贡山三尖杉的新名称(*Cephalotaxus talonensis* Cheng et
Feng ex S. G. Lu et X. D. Lang)及分类地位

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摘 要 提议贡山三尖杉的新名称 *Cephalotaxus talonensis* Cheng et Feng ex S. G. Lu et X. D. Lang 替代不合法的旧名称 *Cephalotaxus lanceolata* K. M. Feng in Cheng et al.(晚出同名)。对比贡山三尖杉和三尖杉 *Cephalotaxus fortunei* Hooker 的模式标本和自然生长状态下的叶片形态 ,支持将贡山三尖杉处理为种的等级 ,不赞同 Silba(1990)将贡山三尖杉降为三尖杉的变种[*Cephalotaxus fortunei* Hooker var. *lanceolata*(Feng) Silba]。文中提供 4 幅参照图片。

关键词 三尖杉科 ;*Cephalotaxus talonensis* Cheng et Feng ex S. G. Lu et X. D. Lang 新名称
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Cephalotaxus talonensis Cheng et Feng ex S. G. Lu et X. D. Lang ,
a New Name of the Family Cephalotaxaceae and Its Taxonomic Status

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Abstract A new name of Cephalotaxaceae , *Cephalotaxus talonensis* Cheng et Feng ex S. G. Lu et X. D. Lang , is reported to replace the illegitimate name , *Cephalotaxus lanceolata* K. M. Feng(1975) , which is a later homonym of the name *Cephalotaxus lanceolata* Hort. ex Beißner(1901) . Additionally , based on comparison of leaf morphology and holotypes between *Cephalotaxus fortunei* Hooker and *C. lanceolata* K. M. Feng , we support that *C. lanceolata* K. M. Feng should be treated as rank of species , and disagreed with the argument that Silba(1990) reduced *C. lanceolata* K. M. Feng to *C. fortunei* Hooker var. *lanceolata* (Feng) Silba. In this paper , four new pictures are provided.

Key words Cephalotaxaceae ; *Cephalotaxus talonensis* Cheng et Feng ex S. G. Lu et X. D. Lang ; new name

Cephalotaxus lanceolata K. M. Feng^[1] is characterized by lanceolate leaves with rounded base , and can be distinguished from *Cephalotaxus fortunei* Hooker (‘ *fortuni* ’) (1850) on the basis of its wider , thinner needles with sharper acute apices. Since it published , this species had been recognized by taxonomists^[2 - 9] , and Silba^[10] treated *C. lanceolata* K. M. Feng as the variety of *C. fortunei* Hooker , i. e. *Cephalotaxus fortunei* Hooker var. *lanceolata* (Feng) Silba.

Unfortunately , under Art. 53.1 and Art. 45.3 of International Code of Botanical Nomenclature^[11] , *C. lanceolata* K. M. Feng is an illegitimate name , a later homonym of the name *Cephalotaxus lanceolata* Hort. ex Beißner^[12 - 14]. Therefore , *C. lanceolata* K. M. Feng (1975) needs to be renamed because no other legitimate epithet is available from a name that has priority at this rank. Additionally , based on the comparison of leaf morphology having been collected from Gongshan and Honghe County , Yunnan Prov-

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Author introduction :LANG Xue-Dong ,major in classical botanical taxonomy.

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ince , China , and the comparison of holotypes between *C. fortunei* Hooker (Fig. 2 4) and *C. lanceolata* K. M. Feng (Fig. 1 3) , we support *C. lanceolata* K. M. Feng should be treated as the rank of species , and disagreed with the argument that Silba (1990) reduced *C. lanceolata* K. M. Feng to *C. fortunei* Hooker var. *lanceolata* (Feng) Silba , because it has lanceolate leaves with rounded bases unlike *C. fortu-*

nei Hooker which lack this characteristic. In views of the above , and the name “ *Cephalotaxus talonensis* Cheng et Feng ” was written by Feng (1960) on the holotype of *C. lanceolata* K. M. Feng but no being publicized (Fig. 3) , we propose a new name , *Cephalotaxus talonensis* Cheng et Feng ex S. G. Lu et X. D. Lang to replace the name *C. lanceolata* K. M. Feng.



Fig.1 Photograph of *C. talonensis* Cheng et Feng ex S. G. Lu et X. D. Lang(Photographed at Maku ,Dulongjiang ,Gongshan County ,Yunnan ,China)



Fig.2 Photograph of *C. fortunei* Hooker (' fortunei ') (Photographed at Jiayin ,Honghe County ,Yunnan , China)

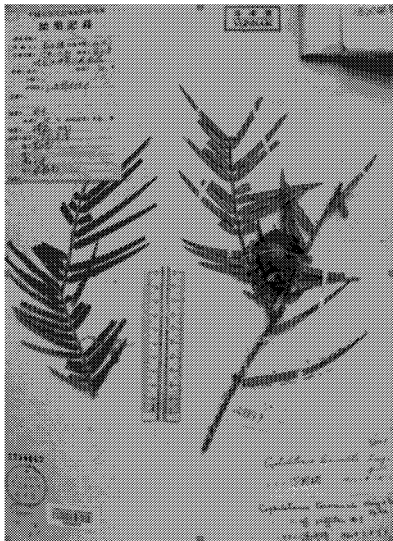


Fig.3 Holotype of *C. lanceolata* K. M. Feng (PE)

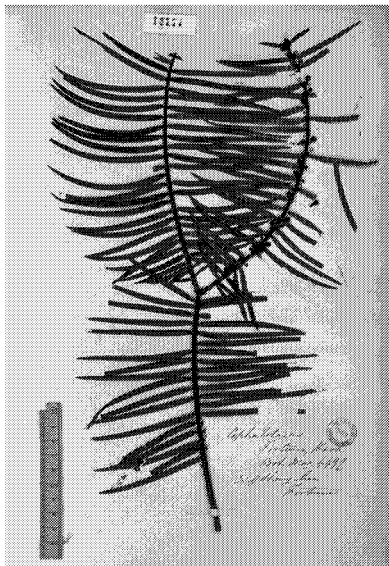


Fig.4 Holotype of *C. fortunei* Hooker (K)

1 Taxonomic treatment

Cephalotaxus talonensis Cheng et Feng ex S. G. Lu et X. D. Lang , nom. nov. 贡山三尖杉 (Fig. 1 , 3)
Cephalotaxus lanceolata K. M. Feng in Cheng et al. . in Acta Phytotax. Sin. 13(4) : 86. f. 50 – 1. 1975. — *Cephalotaxus fortunei* Hooker var. *lanceolata* (Feng) Silba. in Phytologia 68 (1) : 27. 1990. (' fortunei '). **non** Beißner , Mitt. Deutsch. Dendr. Ges. 10 : 73 – 74 & 117. 1901 , et Bull. Soc. Bot.

Ital. 8 : 359. 1901 , et Handb. Nadelholz. 67. 1909 , **nec** Wurm^[15] in Gartenwelt. 5 (47) : 575. 1901 , Schelle^[16] , Wint. Nadel. Mitt. 56. 1909 , Pilger^[17] in Mitt. Deutsch. Dendr. Ges. 25 : 23. 1916 , S – Y Hu^[18] in Taiwania. 10 : 26. 1964. **TYPE** : CHINA. Yunnan : Gongshan Dulong County , Dulongjiang Township , elev. 1900 m , 18 June 1959 , G. M. Feng 24347 [holotype , PE (barcode 00206970) !].
Description—Trees to 20 m tall ; trunk to 40 cm

dbh ; bark purple , smooth ; branches pendulous. Leafy branchlets resembling 2 adjacent parallelograms in outline , broadly ' V ' -shaped in cross section , apex abruptly truncate ; leaves spreading horizontally at ca. 45° to branchlet axis ; petiole very short. Blade dark green adaxially , lanceolate or linear-lanceolate , distally tapered , straight or slightly falcate , 4.5 – 10 cm $\times$ 4 – 7 mm , thin textured and leathery ; abaxial stomatal bands white , base rounded ; margin revolute ; apex long acuminate. Pollen cone capitula axillary , solitary , each of 6 or 11 cones , 3 – 7 mm in diam. , peduncle ca. 3 – 6 mm with several spirally arranged scales ; microsporophylls 6 – 13 , each with 2 – 4 pollen sacs. Seeds cones with peduncle 1.5 – 2 cm long at maturity ; aril turning greenish brown when ripe. Seeds obovoid-ellipsoid , 3.5 – 4.5 cm long , mature Sep-Nov.

Distribution and habitat——CHINA : NW Yunnan , Gongshan Dulong County , banks of upper Dulongjiang River ; BURMA. In subtropical monsoonal broad-leaved evergreen forests , ca. 1 900 m.

Representative specimens——CHINA. Yunnan : Gongshan Dulong County , 20 August 2006 , elev. 1 970 m , Gaoligongshan Biodiversity Survey 32632 (HAST). BURMA. Kayah : Between Ning W 'Krok and Kanang , on the eastern aspects of Gwe-Kya-Kat-Bum , elev. 4000 – 5000 ft , 20 January 1962 , J. Keenan , U Tun Aung & U Tun Hla 3338 (E) ; Hills north west of Kanang , elev. 4000 – 5000 ft , 14 March 1962 , J. Keenan , U Tun Aung & U Tun Hla 3860 (E). Chin : Victoria Mountain , elev. 9000 ft , 2 April 1956 , F. Kingdon-Ward 21916 (E).

2 Discussion

The diagnosis of *C. lanceolata* K. M. Feng was presented by Feng in Cheng et al. 's paper published in *Acta Phytotaxonomica Sinica*^[1]. However , Fu^[4] and Fu et al.^[8] cited the name ' *C. lanceolata* K. M. Feng ' as ' *C. lanceolata* K. M. Feng ex Cheng et al. ' in *Acta Phytotaxonomica Sinica* and *Flora of China* , and Huo^[5] cited ' *C. lanceolata* K. M. Feng ' as ' *C. lanceolata* K. M. Feng ex Cheng et L. K. Fu ' in *Flora Yunnanica*. The above quotations were incorrect forms which should be corrected as ' *C. lanceolata* K. M. Feng in W. C. Cheng et al. '.

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